

## EUROPEAN PATENT OFFICE

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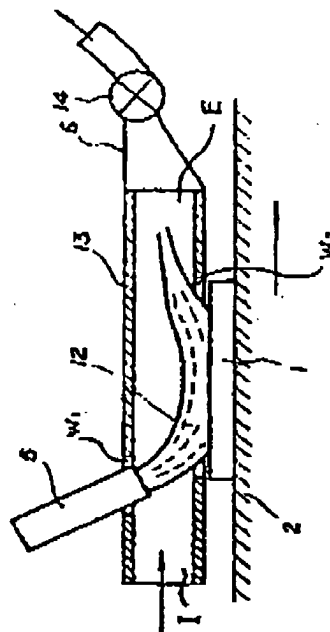
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TITLE : PRODUCTION OF GLASS FILM AND  
DEVICE THEREFOR



**ABSTRACT :** **PURPOSE:** To produce a light guiding film low in propagation loss by feeding gas flow led along the direction of an exhaust pipe to the vicinity of a synthetic torch in a device consisting of both the synthetic torch for fine glass particles and the exhaust pipe of flame laminar flow contg. excess fine glass particles.

**CONSTITUTION:** An air supply pipe 13 wherein an air inlet I and an exhaust port E are integrated for example, to control the flow direction of air is provided so as to cover laminar flow 12 led to the exhaust direction of the flame 12 and the exhaust port E is connected to an exhaust pipe 6. When feeding the laminar flow 12 contg. fine glass particles through a synthetic torch 5, it is introduced into the air supply pipe 13 from a window W<sub>1</sub> and directly blown on a base plate 1 via a window W<sub>2</sub>. After depositing the fine glass particles on the base plate 1, the lamina flow 12 is sucked with an exhaust gas treatment device and exhausted from the exhaust port E through the exhaust pipe 6 and an exhaust control valve 14. At this time, negative pressure is caused in the part of the direction opposite to the exhaust direction of the laminar flow 12 of the air supply pipe 13 and atmospheric gas e.g. air is introduced through the air inlet I and gas flow is generated to the exhaust direction of the laminar flow 12.

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